Draft Recommended Alternative

Plant Master Plan

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Main Features

- Development area is located along Highway 237
- Shoreline levee is placed closest to the Plant operations with salt marsh and mudflats on the Bay side to provide flood protection
- Park with sports fields and connection to Artesian Slough and retail areas
- An institute is visible from Highway 237 and connected to recreation, habitat, and retail areas

Economic Benefit

- Lease revenue could be used to defray Plant operational costs (subject to city council approval)
- Estimated jobs potential: 17,800

Phasing

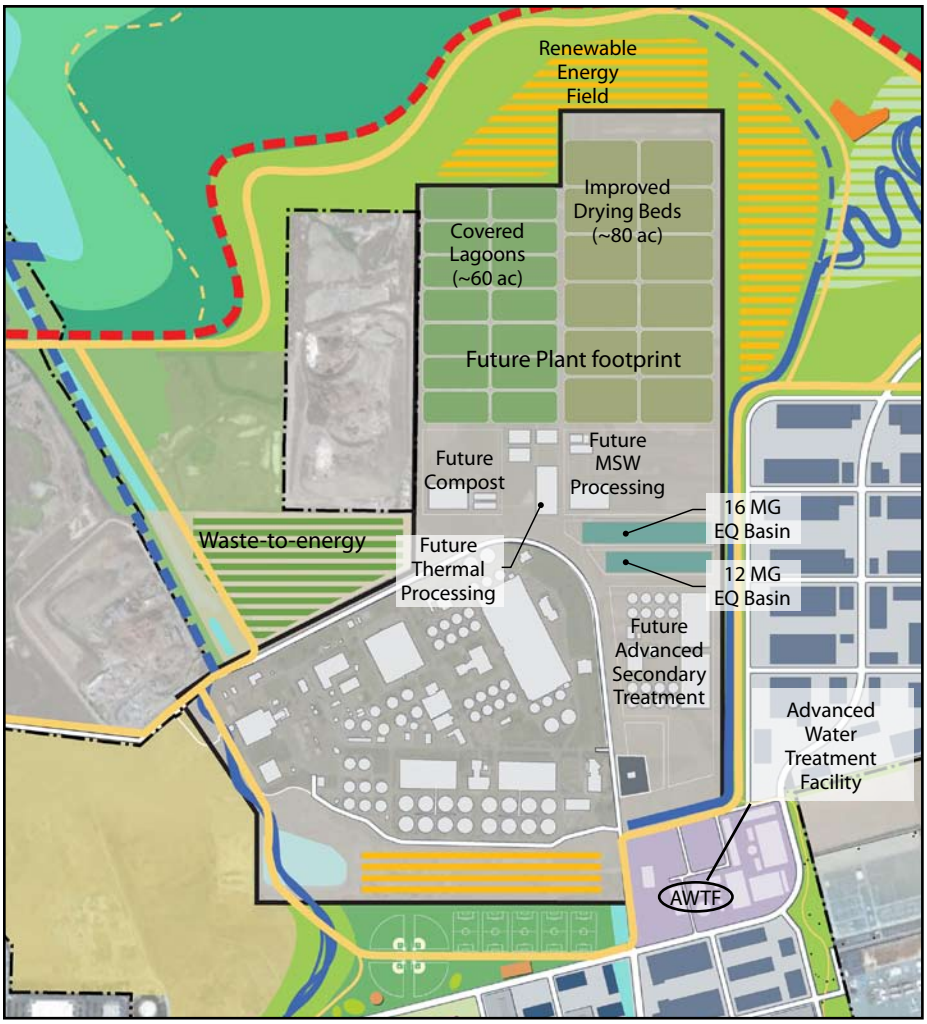
- The alternative is contingent upon implementing odor control measures and relocating the biosolids processing area
- An odor study will identify which lands can be developed with current odor controls, which lands are suitable for uses that are not odor-sensitive (e.g., solar fields), and which lands require additional odor controls prior to development

Funding

- Sanitary sewer rate fees only support Plant projects and will not be used to fund other uses
- Costs for the operational improvements have been identified and the Plant's co-owners and tributary agencies are evaluating financing options

Land Uses	Proposed Area
Future Plant footprint (AWTF, waste-to-energy, main effluent release, and biosolids processing area)	600 acres (currently 1,130 acres)
Advanced water treatment facility (AWTF)	31 acres
Freshwater wetlands	60 acres
Institute	45 acres
Main effluent release	75 acres
Mudflats/Marsh (includes current Pond A18)	920 acres
Nature museum	2 acres
Owl habitat	190 acres
R&D/Industrial	220-235 acres
Recreation	40 acres
Renewable energy field	60 acres
Retail	20-35 acres
Riparian habitat	188 acres
Trails	16 miles
Uplands	160 acres
Waste-to-energy	40 acres

Operational Land Uses

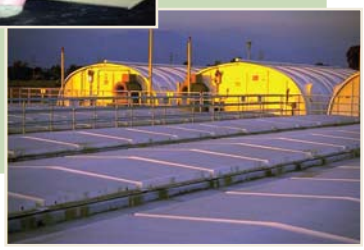


LIQUIDS

- Primary sedimentation basins will be upgraded for reliability.
- Activated biosolids aeration basins will be modified to help meet future regulations.
- Filtration and disinfection processes will be modernized and expanded to increase the treated effluent that can be reused for beneficial purposes.

Recycled water

UV disinfection



Covered tanks

SOLIDS

- Improvements to the anaerobic digesters will increase the efficiency of the digestion process.
- Options for biosolids dewatering and drying are being considered, potentially freeing up hundreds of acres of land for other uses.

Greenhouses

Mechanical dewatering

Solar panels

Fuel cell

ENERGY

- Technologies such as fuel cells and gas turbines will be introduced to better use the methane gas produced as part of the anaerobic digestion process.
- Renewable energy technologies, such as solar panels, will be used to further reduce the Plant's demand for electricity produced off site.

Plant Master Plan

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